State of Nevada

Department of Administration – State Public Works Division
Buildings and Grounds Section
Marlette Lake Water System
Facility Condition Analysis

# MARLETTE LAKE WATER SYSTEM

5400 N. Carson Street Carson City, Nevada 89703

## Site Number: 9788 STATE OF NEVADA PUBLIC WORKS DIVISION FACILITY CONDITION ANALYSIS



Report distributed in May 2018

# State of Nevada Department of Administration – State Public Works Division Buildings and Grounds Section Marlette Lake Water System Facility Condition Analysis

The Facility Condition Analysis Program was created under the authority found in NRS 341.128. The State Public Works Division develops this report using current cost estimates which includes materials, labor, location factors, profit and overhead. The costs of project design, management, special testing and inspections, inflation and permitting fees are not included. Cost estimates are derived from the R.S. Means Cost Estimating Guide and from comparable construction costs of projects completed by SPWD project managers.

The deficiencies outlined in this report were noted from a visual survey. This report does not address routine maintenance needs. Recommended projects do not include telecommunications, furniture, window treatments, space change, program issues, or costs that could not be identified or determined from the survey and available building information. If there are buildings without projects listed, this indicates that only routine maintenance needs were found. This report considers probable facility needs for a 10 year planning cycle.

This report is a planning level document for agencies and the State Public Works Division to assess the needs of the Building and/or Site and to help support future requests for maintenance, fire and life safety upgrades and ADA upgrades/renovations.

#### Establishing a Facility Condition Needs Index (FCNI) for each building

The FCA reports identify maintenance items and establish construction cost estimates. These costs are summarized at the end of the report and noted as construction costs per square foot. A FCNI is commonly used by facility managers to make a judgment whether to recommend whole replacement of facilities, rather than expending resources on major repairs and improvements. The FCNI is a ratio between the proposed facility upgrade costs and facility replacement costs (FRC). Those buildings with indices greater than .50 or 50% are recommended to be considered for complete replacement.

#### **Class Definitions**

#### **PRIORITY CLASS 1** - Currently Critical (Immediate to Two Years)

Projects in this category require immediate action to return a facility to normal operation, stop accelerated deterioration, correct a fire/life safety hazard, or address an ADA deficiency to prevent Civil Rights complaints.

#### PRIORITY CLASS 2 - Necessary - Not Yet Critical (Two to Four Years)

Projects in this category include conditions requiring appropriate attention to preclude predictable deterioration or potential downtime and the associated damage or higher costs if deferred further.

#### **PRIORITY CLASS 3** - (Four to Ten Years)

Projects in this category include items that represent a sensible improvement to existing conditions. These items are not required for the most basic function of a facility; however, Priority 3 projects will either improve overall usability and/or reduce long-term maintenance.

Site num	ber: 9788	Facility Condition Nee	eds Index I	Report		Cost to	Cost to	Cost to	Total Cost	Cost to	FCNI
Index #	<b>Building Name</b>	_	Sq. Feet	Yr. Buil	<b>Survey Date</b>		Repair: P2	Repair: P3	to Repair	Replace	
3763	DIVERSION DAM MET	ER BLDG	72	2007	9/13/2016	\$0	\$5,000	\$720	\$5,720	\$7,200	79%
	5400 N. Carson Street	Carson City									
3761	LAKEVIEW METER BU	ILDING	200	1987	9/13/2016	\$2,400	\$5,000	\$2,000	\$9,400	\$20,000	47%
	5400 N. Carson Street	Carson City									
3762	LAKEVIEW WATER TA	NK	205	1987	9/13/2016	\$12,000	\$5,000	\$2,050	\$19,050	\$88,000	22%
	5400 N. Carson Street	Carson City									
3765	HOBART METER BUIL	DING	48	2007	9/13/2016	\$0	\$0	\$480	\$480	\$4,800	10%
	5400 N. Carson Street	Carson City									
3031	GENERATOR BUILDIN	G	952	2009	9/13/2016	\$46,260	\$29,520	\$9,520	\$85,300	\$1,600,000	5%
	5400 N. Carson Street	Carson City									
3760	LAKEVIEW PROPANES	STORAGE BLDG	40	1987	9/13/2016	\$0	\$0	\$80	\$80	\$1,600	5%
	5400 N. Carson Street	Carson City									
9788	MARLETTE LAKE WAT	TER SYSTEM SITE		0	9/13/2016	\$25,000	\$35,000	\$0	\$60,000		0%
	5400 N. Carson Street	Carson City									
3764	DIVERSION DAM ACTU	UATOR BLDG	12	0	9/13/2016	\$0	\$0	\$0		\$480	
	5400 N. Carson Street	Carson City		<u> </u>							
		Report Totals:	1,529	<u> </u>		\$85,660	\$79,520	\$14,850	\$180,030	\$1,722,080	10%

Wednesday, May 02, 2018

# **Acronyms List**

Acronym	Definition
Building Codes, Laws, Regulations and Guidelines	
AWWA	American Water Works Association
IBC	International Building Code
ICC	International Code Council
IEBC	International Existing Building Code
IECC	International Energy Conservation Code
IFC	International Fire Code
IFGC	International Fuel Gas Code
IRC	International Residential Code
NFPA	National Fire Protection Association
NEC	National Electrical Code
OSHA	Occupational Safety and Health Administration
SAD	Standards for Accessible Design
SMACNA	Sheet Metal and Air Conditioning Contractors
	National Association
UMC	Uniform Mechanical Code
UPC	Uniform Plumbing Code
State of Nevada	
CIP	Capital Improvement Project
FCA	Facility Condition Analysis
FCNI	Facility Condition Needs Index
FRC	Facility Replacement Cost
NAC	Nevada Administrative Code
NDEP	Nevada Department of Environmental Protection
NRS	Nevada Revised Statutes
SFM	State Fire Marshal
SHPO	State Historic Preservation Office
SPWD	State Public Works Division
Miscellaneous	
DDC	Direct Digital Controls
FRP	Fiberglass Reinforced Plastic
GFCI	Ground Fault Circuit Interrupter
LED	Light Emitting Diode
PRV	Pressure Regulating Valve
TDD	Telecommunications Device for the Deaf
VCT	Vinyl Composite Tile

This is a generic acronym list of commonly used terms throughout the Facility Condition Analysis report.

# **Table of Contents**

Building Name	Index #	
MARLETTE LAKE WATER SYSTEM SITE	9788	
HOBART METER BUILDING	3765	
DIVERSION DAM ACTUATOR BLDG	3764	No Current Projects
DIVERSION DAM METER BLDG	3763	
LAKEVIEW WATER TANK	3762	
LAKEVIEW METER BUILDING	3761	
LAKEVIEW PROPANE STORAGE BLDG	3760	
GENERATOR BUILDING	3031	

State of Nevada / Administration Site number: 9788

MARLETTE LAKE WATER SYSTEM SITE SPWD Facility Condition Analysis - 9788

**Survey Date:** 10/3/2016

# MARLETTE LAKE WATER SYSTEM SITE BUILDING REPORT

The Marlette Lake Water System was built in 1873 by the Virginia and Gold Hill Water Company (Hermann Schussler). In 1933, the name changed to Virginia City Water Company. On August 8, 1957, the Virginia City Water Company was sold to Curtis Wright Corporation. On December 2, 1957, it was sold to the Marlette Lake Company and the State of Nevada purchased the water system in June 23, 1963 for 1.65 million. The Marlette Water System is currently managed by State Public Works Division Buildings and Grounds. Initially, the purpose of the Marlette Water System was to provide domestic and mining water. The system currently provides raw water to Carson City and Storey County.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$25,000

**Project Index #:** 

**Project Index #:** 

**Construction Cost** 

**Construction Cost** 

9788SFT1

9788SIT1

\$35,000

\$25,000

Currently Critical Immediate to Two Years

#### WALKING SURFACES/ GUARDRAILS

The Marlette Lake Water System Site has several dams, uneven walking surfaces and wet locations that don't have the proper slip resistant platform walking surfaces required by OSHA 1910.22(a)(2), Where wet processes are used, drainage shall be maintained and false floors, platforms, mats, or other dry standing places should be provided where practicable. There are several locations where it is required for employees to access dams, buildings and other locations where there is possible risk of falling into pits, dams and ditches. Per OSHA 1910.22(c), covers and/or guardrails shall be provided to protect personnel from the hazards of open pits, tanks, vats, ditches, etc. This project will provide funding for OSHA required nonslip platforms and railings to be installed across dams, ditches, and uneven surfacing throughout the site where necessary.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$35,000

Necessary - Not Yet Critical Two to Four Years

#### FENCING INSTALLATION

The Marlette Lake Water System Site has several buildings, abandoned water ways, and many areas where the general public use the area for hiking, biking, and other outdoor activities. This site requires a higher level of security for the safety of the general public and also to protect the drinking water supply. This project would provide for permanent chain link fencing to surround the high security buildings to protect the drinking water supply. Additional chain link fencing is needed for the general public's safety to protect them from areas where safety is a concern. This project would provide 1000 LF of chain link fencing throughout the site at \$35 per LF.

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# PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1: \$25,000
Priority Class 2: \$35,000
Priority Class 3: \$0
Grand Total: \$60,000

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State of Nevada / Administration HOBART METER BUILDING

SPWD Facility Condition Analysis - 3765

**Survey Date:** 10/3/2016

## HOBART METER BUILDING BUILDING REPORT

The Hobart Meter Building is a CMU and wood framed structure. It has a slab-on-grade foundation with a standing seam metal roof. It houses a gate valve for the Dam.

PRIORITY CLASS 3 PROJECTS

**Total Construction Cost for Priority 3 Projects:** 

\$480

Site number: 9788

**Long-Term Needs** 

Four to Ten Years

Project Index #: 3765EXT1
EXTERIOR FINISHES

Construction Cost \$480

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is painting the concrete masonry unit walls and caulking of the flashing, fixtures and all other penetrations. It is recommended that the building be painted and caulked in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

#### **BUILDING INFORMATION:**

Gross Area (square feet): 48

Year Constructed: 2007

Exterior Finish 1: 75 % Painted CMU Exterior Finish 2: 25 % Metal Siding

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 % U IBC Occupancy Type 2: 0 %

Construction Type: CMU and wood frame

IBC Construction Type: I-A

Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$10.00	Project Construction Cost per Square Foot:	<b>\$0</b>	<b>Priority Class 1:</b>
\$5,000	<b>Total Facility Replacement Construction Cost:</b>	<b>\$0</b>	<b>Priority Class 2:</b>
\$100	Facility Replacement Cost per Square Foot:	\$480	<b>Priority Class 3:</b>
10%	FCNI:	\$480	Grand Total

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State of Nevada / Administration DIVERSION DAM METER BLDG

SPWD Facility Condition Analysis - 3763

**Survey Date:** 10/3/2016

### DIVERSION DAM METER BLDG BUILDING REPORT

The Diversion Dam Meter Building is a CMU structure with a slab-on-grade foundation and a standing seam metal roof. The building is alarmed through Sierra Controls and is a heated structure. It meters the water flow through the Diversion Dam.

PRIORITY CLASS 2 PROJECTS

EXTERIOR LANDING INSTALLATION

Total Construction Cost for Priority 2 Projects: \$5,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3763SFT1
Construction Cost \$5,000

Site number: 9788

There is an out-swinging exterior door from the building that swings out over a step and does not have a landing that complies with IBC 2012. IBC Section 1008 which requires a landing to be not more than 1/2" below the threshold.

This project would provide for the installation of a compliant landing for the door.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$720

Long-Term Needs Four to Ten Years

Project Index #: 3763EXT1
EXTERIOR FINISHES Construction Cost \$720

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is painting the concrete masonry unit walls and caulking of the flashing, fixtures and all other penetrations. It is recommended that the building be painted and caulked in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

#### **BUILDING INFORMATION:**

Gross Area (square feet): 72

Year Constructed: 2007

Exterior Finish 1: 100 % Painted CMU

Exterior Finish 2: 0 %

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 0 % U
IBC Occupancy Type 2: 0 %

Construction Type: Concrete Masonry and Steel

IBC Construction Type: I-A

Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$79.44 **Priority Class 1:** \$0 **Project Construction Cost per Square Foot:** \$7,000 **Priority Class 2:** \$5,000 **Total Facility Replacement Construction Cost:** \$100 **Priority Class 3:** \$720 Facility Replacement Cost per Square Foot: 82% **FCNI: Grand Total:** \$5,720

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State of Nevada / Administration LAKEVIEW WATER TANK

SPWD Facility Condition Analysis - 3762

**Survey Date:** 10/3/2016

# LAKEVIEW WATER TANK BUILDING REPORT

The Lakeview Water Tank is constructed of welded steel, has a painted exterior and holds up to 22,000 gallons of water.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$12,000

Site number: 9788

**Currently Critical** 

**Immediate to Two Years** 

GUARDRAIL Project Index #: 3762EXT2
Construction Cost \$12,000

The NFPA 22 standard designates the requirements for water tanks used for private fire protection. This tank is used to store water for fire protection and is an AWWA D100 tank that is required to have 360° guardrails. This project would provide for the purchase and installation of new guardrails to be located at the top of the water tank.

PRIORITY CLASS 2 PROJECTS

**Total Construction Cost for Priority 2 Projects:** \$5,000

Necessary - Not Yet Critical

Two to Four Years

Project Index #: 3762INT1
INTERIOR FINISHES
Construction Cost \$5,000

It is important to maintain water quality, quantity and the interior finish of the water tank. This project would include hiring certified divers or draining the tank to inspect and clean the interior walls, and to weld, sandblast and perform repairs and add protective coatings, if needed. It is important to follow all ANSI, NSF and AWWA approved ways to disinfect and repair water tanks. The standard recommendation is to conduct a comprehensive inspection inside the water tank every 5 years, except for newly constructed tanks. Newly constructed water tanks should be inspected within 10 years of service and every 5 years thereafter.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,050

Long-Term Needs

EXTERIOR FINISHES

Four to Ten Years

Project Index #: 3762EXT1 Construction Cost \$2.050

It is important to maintain the finish, weather resistance and appearance of the tank. This project recommends work to protect the exterior of the tank to include; preparation for painting, caulk and paint. It is recommended for this project to be implemented in the next 4-5 years. An additional recommendation is to conduct inspections and testing on a cyclical basis based per NAC 445.

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#### **BUILDING INFORMATION:**

Gross Area (square feet): 205

Year Constructed: 1987

Exterior Finish 1: 100 % painted steel

Exterior Finish 2: 0 %

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 % U IBC Occupancy Type 2: 0 %

Construction Type: Steel
IBC Construction Type: I-A
Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$92.93	<b>Project Construction Cost per Square Foot:</b>	\$12,000	<b>Priority Class 1:</b>
\$88,000	<b>Total Facility Replacement Construction Cost:</b>	\$5,000	<b>Priority Class 2:</b>
\$429	Facility Replacement Cost per Square Foot:	\$2,050	<b>Priority Class 3:</b>
22%	FCNI:	\$19,050	Grand Total:

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State of Nevada / Administration LAKEVIEW METER BUILDING

SPWD Facility Condition Analysis - 3761

**Survey Date:** 10/3/2016

## LAKEVIEW METER BUILDING BUILDING REPORT

The Lakeview Meter Building is a CMU structure with a slab-on-grade foundation and an asphalt composition roof. The building is alarmed through Sierra Controls and is a heated structure. It meters the water flow to Carson City.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,400

**Currently Critical** 

Immediate to Two Years

ROOF REPLACEMENT Project Index #: 3761EXT3
Construction Cost \$2,400

The asphalt composition shingle roof on this building was in poor condition at the time of the survey. It is recommended that this building be re-roofed in the next 1-2 years with a new 50 year asphalt composition shingle roof and new underlayment. This estimate includes removal and disposal of the old roof.

PRIORITY CLASS 2 PROJECTS

EXTERIOR LANDING INSTALLATION

Total Construction Cost for Priority 2 Projects: \$5,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3761SFT1 Construction Cost \$5,000

Site number: 9788

There is an out-swinging exterior door from the building which swings out over a step and does not have a landing that complies with IBC 2012. IBC Section 1008 requires a landing to be not more than 1/2" below the threshold. This project would provide for the installation of a compliant landing for the door.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,000

Long-Term Needs Four to Ten Years

Project Index #: 3761EXT2
EXTERIOR FINISHES Construction Cost \$2,000

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is painting the concrete masonry unit and T1-11 walls, and caulking of the flashing, fixtures and all other penetrations. It is recommended that the building be painted and caulked in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

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#### **BUILDING INFORMATION:**

Gross Area (square feet): 200

Year Constructed: 1987

Exterior Finish 1: 0 % Painted CMU

Exterior Finish 2: 0 % Painted Wood Siding

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 % U IBC Occupancy Type 2: 0 %

Construction Type: Concrete Masonry and Wood

IBC Construction Type: V-B
Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$47.00	<b>Project Construction Cost per Square Foot:</b>	\$2,400	Priority Class 1:
\$20,000	<b>Total Facility Replacement Construction Cost:</b>	\$5,000	<b>Priority Class 2:</b>
\$100	Facility Replacement Cost per Square Foot:	\$2,000	<b>Priority Class 3:</b>
47%	FCNI:	\$9,400	Grand Total:

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State of Nevada / Administration

#### LAKEVIEW PROPANE STORAGE BLDG SPWD Facility Condition Analysis - 3760

**Survey Date:** 10/3/2016

# LAKEVIEW PROPANE STORAGE BLDG

#### **BUILDING REPORT**

The Lakeview Propane Storage Building is constructed of fence posts with chain link fencing and privacy slats and has a standing seam metal roof. It houses a propane tank.

PRIORITY CLASS 3 PROJECTS

**Total Construction Cost for Priority 3 Projects:** 

Site number: 9788

\$80

**Long-Term Needs** 

Four to Ten Years

Project Index #: 3760EXT1
EXTERIOR FINISHES

Construction Cost \$80

It is important to maintain the finish, weather resistance and appearance of the structure. This project recommends work to protect the exterior building envelope including repairs to the exterior fencing, privacy slats, fence posts and hardware. This project would provide funding to protect the exterior of the building excluding the roof. It is recommended that this project be implemented in the next 4-5 years and it is also recommended that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

#### **BUILDING INFORMATION:**

Gross Area (square feet): 40

Year Constructed: 1987

Exterior Finish 1: 100 % Steel post

Exterior Finish 2:

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 % U IBC Occupancy Type 2: 0 %

**Construction Type:** Metal fence posts

IBC Construction Type: I-A

Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$2.00	<b>Project Construction Cost per Square Foot:</b>	<b>\$0</b>	<b>Priority Class 1:</b>
\$2,000	<b>Total Facility Replacement Construction Cost:</b>	<b>\$0</b>	<b>Priority Class 2:</b>
<b>\$40</b>	Facility Replacement Cost per Square Foot:	\$80	<b>Priority Class 3:</b>
4%	FCNI:	082	Grand Total:

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State of Nevada / Administration GENERATOR BUILDING

SPWD Facility Condition Analysis - 3031

**Survey Date:** 9/13/2016

#### **GENERATOR BUILDING**

#### BUILDING REPORT

The Generator Building is a CMU structure with a slab-on-grade foundation and a standing seam metal roof. This building houses two generators. The larger generator is 350kw and supplies power to a 250hp pump that supplies 1,500 gallons per minute of water from Marlette Lake to Hobart Reservoir.

PRIORITY CLASS 1 PROJECTS

**Total Construction Cost for Priority 1 Projects:** 

\$46,260

Site number: 9788

**Currently Critical** 

**Immediate to Two Years** 

BATTERY STORAGE

Project Index #: 3031SFT1 **Construction Cost** \$25,000

Section 608 of the 2012 IFC explains the requirements for stationary storage of battery systems. Batteries shall have safety caps, spill control and neutralization, mechanical ventilation and/or cabinet ventilation, supervision over the mechanical ventilation, building or cabinet signage, seismically braced and a smoke alarm. This project will provide funding for the requirements of Section 608 of the 2012 IFC proper way to store, charge and/or use batteries indoors.

Project Index #: 3031SFT2

**Construction Cost** \$4,760

#### EXIT SIGN AND EGRESS LIGHTING

The building does not have emergency lighting and the exit signs do not meet current standards. This project would provide for the purchase and installation of self-illuminated or LED style exit signs with battery-backed internal systems as well as emergency egress lighting to provide illumination along the egress route. IBC 2012 Chapter 10 was referenced for this project.

GENERATOR MAINTENANCE

**Project Index #:** 3031SIT2 **Construction Cost** \$10,000

Preventative maintenance for generators plays a critical role in maximizing reliability, minimizing repairs, reducing long term costs and prolonging the life expectancy of generators. This project would provide for a licensed contractor to perform the preventive maintenance on the generator that is required from the manufacturer specifications.

SPILL CONTAINMENT

Project Index #: 3031ENV1 **Construction Cost** \$6,500

The building does not have a method for containing spills or leakage from drums. This project would add secondary containment pallets for all containers in the building and install placards on the building's exterior.

PRIORITY CLASS 2 PROJECTS

**Total Construction Cost for Priority 2 Projects:** \$29,520

**Necessary - Not Yet Critical** 

Two to Four Years

3031HVA1

#### HEATER REPLACEMENT

Project Index #: **Construction Cost** \$15,000

The building currently has open combustion air for the generator. The combustion air is located on the side wall and on the ceiling. When the heater runs in the building the heat rises and escapes through the combustion air on the ceiling. This makes the building very unpleasant to work in when the weather is cold. This project would remove the existing heater and provide for the installation of two suspended radiant heaters. The estimate includes two radiant heaters, seismic supports and connections to all the utilities.

INTERIOR FINISHES

Project Index #: 3031INT1 **Construction Cost** \$9,520

It is recommended to repair and seal the interior concrete block walls at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped.

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Project Index #: 3031SIT1
SITE DRAINAGE UPGRADES

Construction Cost \$5,000

# The grade does not slope away effectively from the building. Water has pooled against the foundation. In the winter months, as the water freezes against the foundation, over time, this can cause damage to the foundation. It is recommended per IBC 1804.3, Site Grading the ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one vertical in 20 units horizontal (5-percent slope) for a minimum distance of 10 feet (3048 mm) measured perpendicular to the face of the wall. This project would create a 5% slope

away from the building. Additional drainage swales shall be installed, as needed. It is recommended that the grading

PRIORITY CLASS 3 PROJECTS

be completed within 2-3 years.

Total Construction Cost for Priority 3 Projects: \$9,520

Long-Term Needs Four t

Four to Ten Years

Project Index #: 3031EXT1
EXTERIOR FINISHES

Construction Cost \$9,520

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is painting the concrete masonry unit walls and caulking of the flashing, fixtures and all other penetrations. It is recommended that the building be painted and caulked in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

#### **BUILDING INFORMATION:**

Gross Area (square feet): 952

Year Constructed: 2009

Exterior Finish 1: 100 % Painted CMU

Exterior Finish 2: 0 %

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 0 % U
IBC Occupancy Type 2: 0 %

Construction Type: Slab on grade, CMU walls, and metal roof

IBC Construction Type: I-A
Percent Fire Suppressed: 0 %

#### PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$89.60	Project Construction Cost per Square Foot:	\$46,260	<b>Priority Class 1:</b>
\$1,600,000	<b>Total Facility Replacement Construction Cost:</b>	\$29,520	<b>Priority Class 2:</b>
\$1,681	Facility Replacement Cost per Square Foot:	\$9,520	<b>Priority Class 3:</b>
5%	FCNI:	\$85,300	Grand Total:

#### NOTES:

The deficiencies outlined in this report were noted from a visual survey. The costs do not represent the cost of a complete facility renovation or maintenance needs. Recommended projects do not include telecommunications, furniture, window treatment, space change, program issues, relocation, swing space, or costs that could not be identified or determined from the survey and available building information.

Individual projects and costs noted herein may be impacted by new construction materials or methods, agency projects, and pending or proposed Capital Improvement Projects (CIP).

This report was created under the authority found in NRS 341.128 by the State Public Works Division and should be utilized as a planning level document.

#### REPORT DEVELOPMENT:

State Public Works Division 515 E. Musser Street, Suite 102 (775) 684-4141 voice Facilities Condition Analysis Carson City, Nevada 89701-4263 (775) 684-4142 facsimile

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Marlette Lake Water System - Site #9788
Description: Walking surfaces / guardrails needed.



Hobart Meter Building - Building #3765
Description: Exterior landing installation needed.



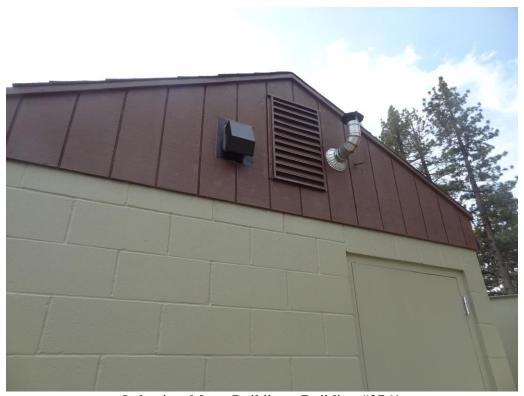
Diversion Dam Meter Building – Building #3763 Description: View of exterior finishes.



Diversion Dam Meter Building – Building #3763 Description: Exterior landing installation needed.



Diversion Dam Meter Building – Building #3763 Description: Flue replacement needed.



Lakeview Meter Building - Building #3761 Description: Flue distance and repairs needed.



Lakeview Meter Building - Building #3761 Description: Roof replacement needed.



Generator Building - Building #3031
Description: Exit sign and egress lighting needed.



Generator Building - Building #3031 Description: Generator maintenance needed.



Generator Building - Building #3031 Description: Heater replacement needed.